

DRAINAGE NOTES:

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING INFORMATION ON THESE PLANS IS BASED ON RECORD DOCUMENTS PREPARED BY OTHERS. ALL ELEVATION SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION AS THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK. PRIOR TO INSTALLATION THE CONTRACTOR SHALL CONFIRM ALL ELEVATIONS IN THE FIELD, AND SHALL BE WITNESSED BY THE ENGINEER.
- UNSATURATED SOILS LOCATED WITHIN THE LIMITS OF THE STORMWATER INFILTRATION BASIN SHALL BE REMOVED PRIOR TO INSTALLATION OF THE SYSTEM. THE BOTTOM OF EXCAVATION SHALL BE INSPECTED BY THE PROJECT ENGINEER PRIOR TO FINAL GRADING OF THE BASIN. STORMWATER INFILTRATION BASIN SUBSOIL SHALL BE OVEREXCAVATED UNTIL THE NATIVE SAND MATERIALS ARE ENCOUNTERED. THE STORMWATER INFILTRATION BASIN SHALL BE PLACED OVER IMPORTED SAND CONFORMING WITH THE REQUIREMENTS OF THE MASSACHUSETTS SANITARY CODE (TITLE V) AS NEEDED.
- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH HINGHAM DEPARTMENT OF PUBLIC WORKS AND HINGHAM WATER DEPARTMENT SPECIFICATIONS.

SITE COVERAGE SUMMARY

EXISTING IMPERVIOUS SITE COVERAGE				
	BIT. CONC. DRIVEWAY	ROOF	OTHER IMPERVIOUS	TOTAL
COVERAGE (Sq.Ft.)	622	944	132	1,698

PROPOSED IMPERVIOUS SITE COVERAGE				
	BIT. CONC. DRIVEWAY	ROOF	OTHER IMPERVIOUS	TOTAL
COVERAGE (Sq.Ft.)	922	2,461	49	3,432

THE PROJECT PROPOSES A NET INCREASE IN IMPERVIOUS COVERAGE OF 1,734 Sq.Ft. RESULTING IN A TOTAL IMPERVIOUS COVERAGE OF 3,432 Sq.Ft. OR 23% SITE COVERAGE. THE HINGHAM ZONING BY-LAW DOES NOT SPECIFY A MAXIMUM IMPERVIOUS SITE COVERAGE WITHIN THE RESIDENCE A ZONING DISTRICT.

STORMWATER SUMMARY

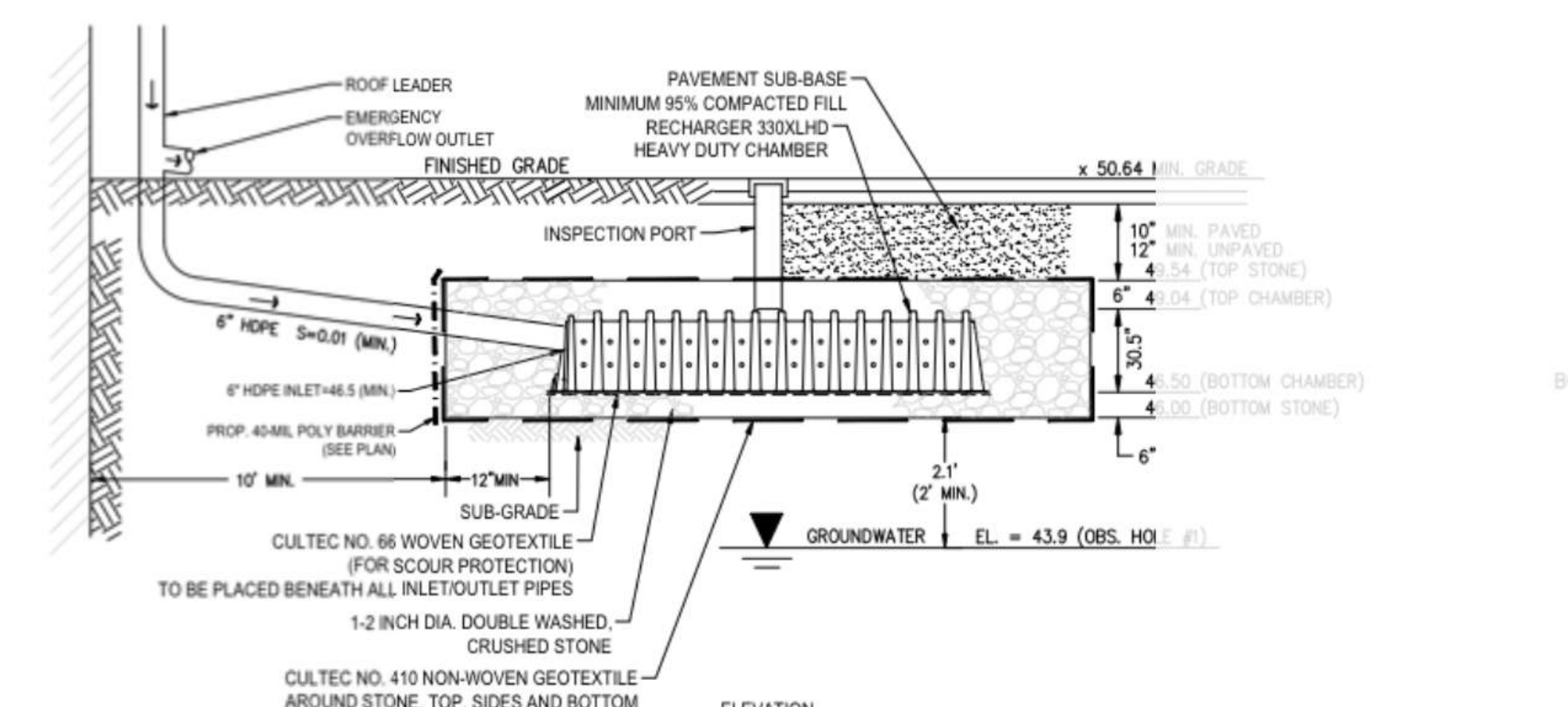
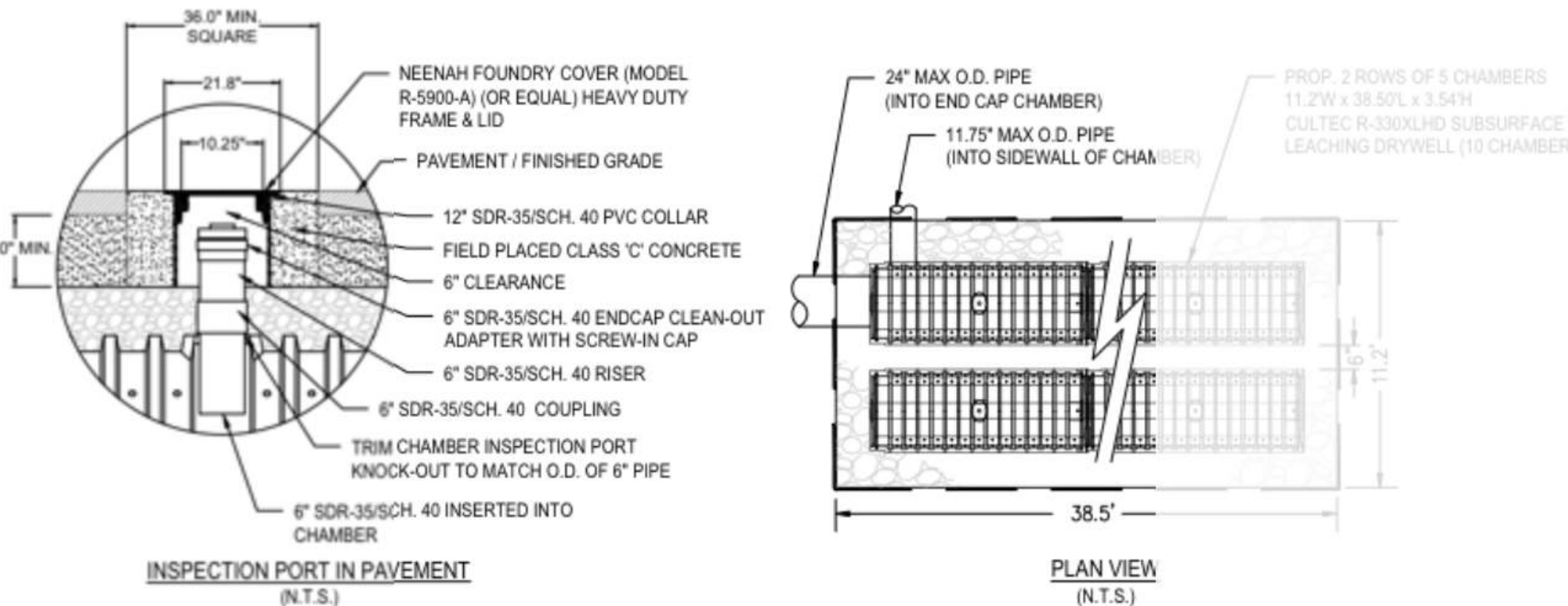
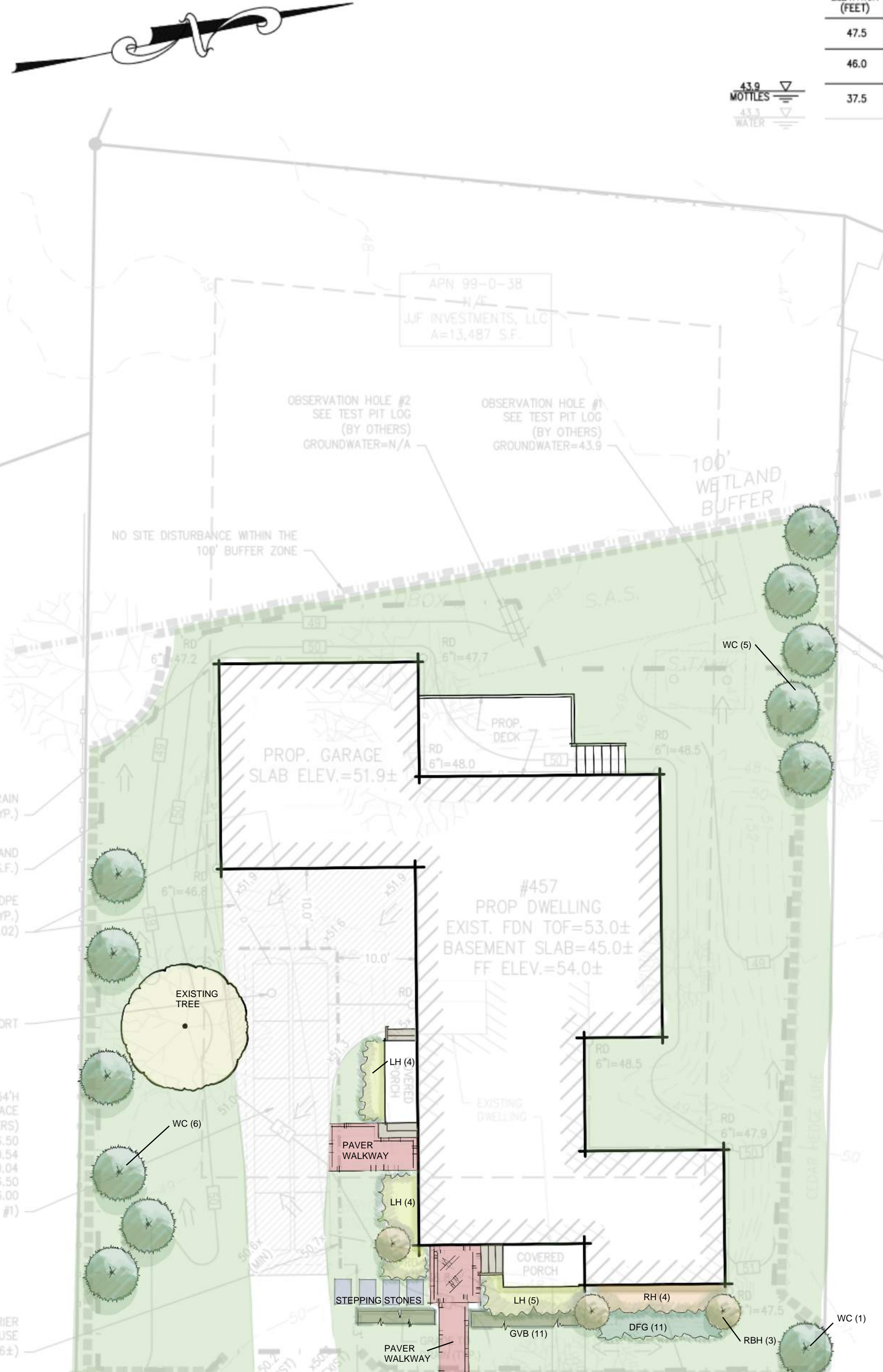
EXISTING VS. PROPOSED PEAK FLOW RATES & VOLUMES (TO WETLANDS)				
	PEAK FLOW RATES (CFS)		VOLUMES (CUFT)	
	EXISTING	PROPOSED	EXISTING	PROPOSED
2-YR (3.41")	0.19	0.13	650	451
10-YR (5.22")	0.50	0.35	1,858	1,103
25-YR (6.35")	0.72	0.51	2,212	1,576
100-YR (8.10")	1.08	0.78	3,303	2,369

THE PROPOSED STORMWATER SYSTEM RESULTS IN A DECREASE IN BOTH PEAK FLOW RATES AND NET VOLUMES, AND IS DESIGNED TO BE IN FULL COMPLIANCE WITH STANDARD 2 OF THE MASSDEP STORMWATER MANAGEMENT REGULATIONS.

SOIL DATA (BY OTHERS)

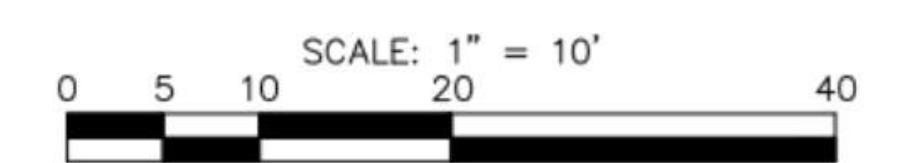
NOTE: 1. SOIL TESTING INFORMATION SHOWN FROM A PLAN ENTITLED "PROPOSED SEPTIC SYSTEM, 457 MAIN STREET, HINGHAM MASSACHUSETTS" PREPARED BY McSWEENEY ASSOCIATES, INC. DATED 1/5/2022.

ELEVATION (FEET)	OBSERVATION HOLE #1					OBSERVATION HOLE #2				
	DEPTH (INCHES)	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	DEPTH (INCHES)	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING
47.5	0-18	A	LOAMY SAND	10 YR 3/3	NONE	48.2	0-12	A	LOAMY SAND	10 YR 3/3
46.0	18-120	C1	V. GRAV. SAND	10 YR 5/3	10% 5/8	47.2	12-60	C1	V. GRAV. SAND	10 YR 5/2
37.5						43.2	60-75	C1	V. GRAV. SAND	10 YR 5/2



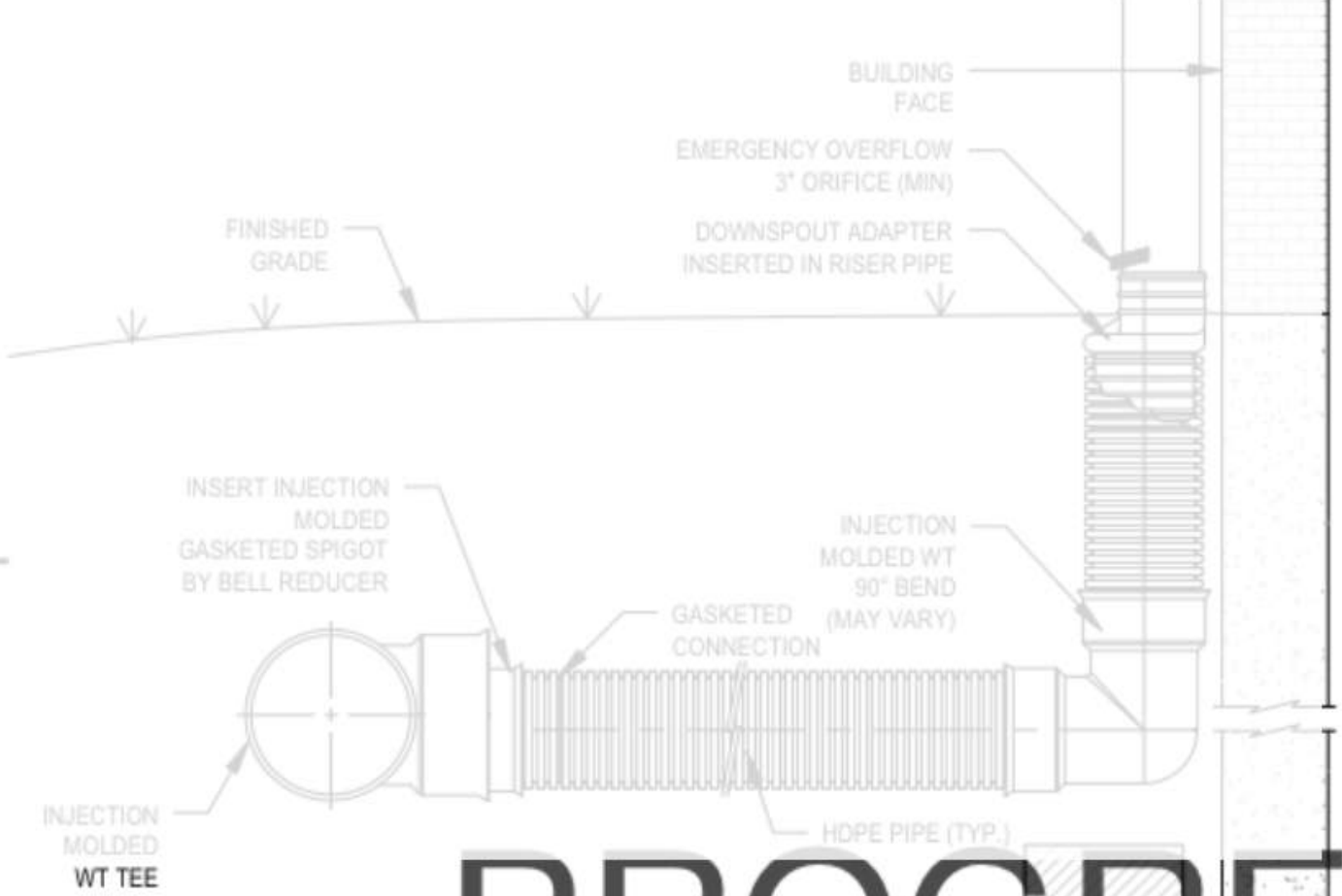
- SYSTEM NOTES:**
- EXCAVATE BELOW BOTTOM OF CRUSHED STONE BASE AND BACKFILL WITH CLEAN GRAVEL BORROW (MASS. HIGHWAY M1.03.0 TYPE B) TO NATURALLY OCCURRING PERVIOUS MATERIAL. REMOVE ALL FILL AND OTHER UNSUITABLE LAYERS INCLUDING THE A & Bw HORIZON IN THE AREA OF THE INFILTRATION SYSTEM.
 - ALL ROOF LEADERS SHALL BE EQUIPPED WITH DOWNSPOUT STRAINERS.
 - DURING INSTALLATION OF THE SYSTEM, NO CONSTRUCTION ACTIVITY (TRAFFIC) SHALL BE ALLOWED OVER THE LEACHING DRY WELL AREAS.
 - NO CONSTRUCTION SURFACE WATER OR DEWATERING DISCHARGES SHALL BE DISCHARGED INTO THE DRYWELL STRUCTURES OR DRYWELL SITE LOCATIONS.
 - THE CONTRACTOR SHALL PROVIDE PROTECTION ABOVE AND AROUND THE SYSTEM FROM CONSTRUCTION VEHICLES.
- CULTEC GENERAL NOTES**
- RECHARGER 330XL HD BY CULTEC, INC. OF BROOKFIELD, CT.
 - REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES.
 - THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
 - ALL RECHARGER 330XLHD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SUBSURFACE LEACHING DRYWELL (CULTEC 330 XLHD CHAMBERS)
SCALE: N.T.S.



PLANT SCHEDULE

QTY	SYMBOL	LATIN NAME	COMMON NAME	SIZE
12	WC	Thuja plicata	Western Cedar	7-8'
3	RBH	Ilex x 'Rutzan'	Red Beauty Holly	3.5-4.5'
4	RH	Rhododendron catabiense	Boursault Rhododendron	2-3'
13	LH	Hydrangea arborescens	Invincible Hydrangea	24-30"
11	GVB	Buxus 'Green Velvet'	Green Velvet Boxwood	18-24"



- NOTES:**
- INJECTION MOLDED FITTING ARE AVAILABLE IN TEES, WYES, REDUCERS, 45° BENDS AND BELLBELL COUPLERS.
 - WATERTIGHT (WT) JOINTS SHOWN. SOIL-TIGHT (ST) FITTINGS ARE ALSO AVAILABLE.

ROOF LEADER CONNECTION DETAIL
SCALE: N.T.S.

BY	APP	DATE	DESCRIPTION
AJC	BCM	10/28/2022	REVISION PER BUILDING DEPT. REVIEW
AJC	BCM	12/5/2022	REVISION FOR MINOR SITE PLAN REVIEW

PREPARED BY:

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PROPOSED SINGLE FAMILY HOME
(ASSESSOR PARCEL 99-0-38)
457 MAIN STREET
HINGHAM, MASSACHUSETTS

LANDSCAPE DESIGN:
SEOANE LANDSCAPE DESIGN

OWNER:
JFF INVESTMENTS LLC
15 MARYKNOLL DRIVE
HINGHAM, MA 02043

DRAWN BY: AJC
DESIGNED BY: AJC
CHECKED BY: BCM
APPROVED BY: BCM
DATE: OCTOBER 7, 2022
SCALE: 1" = 10'
PROJECT NO: 222-207
DWG. TITLE:

GRADING & DRAINAGE PLAN

DWG. NO.: C-2